

CheckMate™ IV

Model RT-U49A

Universal Remote Control



Programming And Operating Instructions

To have a clearer idea of the features and capabilities of your remote control, take a moment to read these instructions. Save for future reference.

Rev. 11/2000. © 2001, CONTEC CORPORATION

1. Introduction

Your Checkmate IV (Model RT-U49A) universal remote control is simple to program, easy to use, and can operate up to four (4) electronic devices which include:

CABLE	Cable converters
TV	Televisions
VCR	VCRs
AUX	2 nd CABLE, 2 nd TV, 2 nd VCR

Before you can use your remote control, it must be programmed (set-up) to operate the above devices.

Programming your remote is a simple procedure using **Point and Press™ Programming**, an automatic method whereby the remote self-programs to each of your devices, eliminating the need to use codes. Programming your remote can also be done by entering code numbers.

Simplified Point and Press™ Programming instructions can also be found on the back of your remote control.

2. Installing / Replacing Batteries

Install two (2) "AAA" batteries as indicated by the diagram in the battery compartment. Be careful to properly match the "+" / "-" ends of the batteries with the diagram in the battery compartment.

Under normal use, your remote should operate for approximately 10 - 12 months on 2 "AAA" non-alkaline batteries. For longer life, use alkaline-type batteries.

When the batteries become too weak to operate the remote control properly, the mode keys will become dim or not illuminate at all during use. When this happens, install 2 new "AAA" size batteries.

Your remote control has **Memory Guard™**, which eliminates reprogramming after battery changes provided new batteries are installed within 6 hours of removal of old batteries.

3. Programming Your Cable Converter

Your remote is pre-programmed to operate Motorola's DCT® and CFT2200® set-top CABLE converters.

If you need to operate a different CABLE converter, look up the brand and model number in the attached code list. If you are not sure of your brand and model, contact your cable company.

To program (setup) the remote to operate your **CABLE** converter...

1. Turn on your CABLE converter.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [CABLE]. The [CABLE] button will illuminate.
4. From the Cable Setup Code list below, locate and enter the 3-digit code for your brand and model.
5. Press [CABLE] to lock in the code. The [CABLE] button will blink 2 times and go out.

Write your CABLE brand & setup code _____

Cable Setup Codes

Motorola (General Instrument)	
DCT, CFT2200 (default)	101
CFT2100, CFT2000	102
Jerrold	
DL4, DP(V), DQN(V), DPBB	103
Scientific Atlanta	
Explorer	104
8600X	105
8600	106
8540, 70, 90	107
Pioneer	
Voyager	104
BA-V1000, BA-V2000	110
BA-9000	109
BC-4600, BA-5000, BA-6000	108
Tocom	
5503VIP, 5507, 5508	111
Zenith	
Z-Tac	112
MM2500	113
Oak	
Sigma One, P1, P2, P3, Sigma 2000	114

4. Programming Your TV

If you have a TV operated by remote control, it is recommended that you plug it directly into a wall outlet instead of the cable converter.

To program (setup) the remote to operate your **TV**...

- Turn on your TV.
- Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
- Press [TV]. The [TV] button will illuminate.
- Press and hold [CH ^] until your TV turns off. As soon as your TV turns off, release [CH ^].

OR

 - From the TV Setup Code list below, locate and enter the 3-digit code for your brand. If multiple codes are listed, you may have to enter several 3-digit codes until your TV turns off.
- Press [MUTE]. If your TV turns back on, press [TV] to lock in the code. The [TV] button will blink 2 times and go out.

If your TV does not turn back on, repeat steps 4 and 5 above until you can turn your TV off and on. 🗑️

Write your TV brand & setup code. _____

🗑️ **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your TV off but not back on (step 5.), you may have gone past the correct matching code. Try pressing [CH v] one step at a time until you find a code that turns your TV back on. Refer to Section 14 for Code Number Readback.

TV Setup Codes

Admiral	158 161 162 167
Adventura	104
Akai	165
A Mark	107 186
Amstrad	106
Anam	188 189 193
AOC	165
Belcor	141
Bell&Howell	162
Broksonic	111 154
Brokwood	141
Candle	127 152
Centurion	144 151
Citizen	127 152 159 162
Concerto	141 151
Contec	120
Coronado	107
Crown	107
Curtis Mathes	144 161 162
Daewoo	127 139 140 141 142 151 190 191 192 194
Daytron	141 144 151

Dumont	141
Electron Home	141 151
Elektra	102
Emerson	107 108 111 112 117 154 165 179
Envision	141 151
Fisher	110 128
Funai	104
GE	105 119 127 131 137 141 146 151 153 155 161 170
Gibraltar	107 125 127 131 141 144 151 159 160 165
Goldstar (LG)	107 127 131 141 144 159 160 165
Grundig	159
Hall Mark	141 151
Hitachi	107 127 149 151 183 185
Inkel	175
JC Penney	105 110 127 137 141 151 165 169 170
JVC	148 177 180
Kawasho	141 151
KMC	107
KTV	107 130 159 165
Kurazai	162
Lodgenet	162
Logik	162
Luxman	127 141 151
LXI	135 167
Magnavox	101 105 107 114 127 126 141 152 168 181
Majestic	162
Marantz	103 165 176
Megatron	186
Memorex	162
MGA / Mitsubishi	103 127 131 141 144 151 165 176 184
Montgomery Ward	107 137 144 157 158 162 165 167 181
NEC	123 127 131 144
Orion	133 117 133 145 147 178
Panasonic	118 119 121 124 153 163
Philco	101 107 127 152 165 181
Philips	101 114 127 131 181 197
Pilot	141159197
Pioneer	156
Portland	107 127
ProScan	155 161 173 182
Proton	131
Pulsar	141
Quasar	119
Radio Shack	141

Realistic	112 157 179
RCA	122 127 146 153 155 161 165 172 173 182
Sampo	131 144
Samsung	107 116 120 131 144
Sanyo	102 110 128
Scott	131 144 179
Sears	102 107 110 116 127 128 143 169
Sharp	107 109 123 135 157 164 167 196
Signature 2000	107 144 158 162 167
Sony	132 138 150 166
Soundesign	152
Squareview	106
Supre-Macy	171
Sylvania	101 105 126 127 131 144 152 181
Symphonic	104 106
Tatung	119
Techwood	127
Teknika	101 107 127 152 162 179
Telerent	107 162
TMK	127 131
Toshiba	116 129 143 169
Totevision	159
Universal	127 170
Vidtech	127
Wards	127 131
White Westinghouse	158
XR-1000	162
Yamaha	127
York	131 144
Zenith	104 115 125 136 142 134

To program your TV / VCR combination unit...

- First, program your remote as a TV

Following the steps in this section, find a TV Setup Code that operates the TV functions of your TV / VCR (power, vol ^/v, mute, ch ^/v, 0 – 9).

- Then, program your remote as a VCR

Following the steps in Section 5 for code number programming, enter, lock and test each 3-digit VCR Setup Code until a code is found that operates the VCR functions of your TV / VCR (play, stop, fast-forward, rewind, pause, record).

Note: You can not use the Point and Press™ Programming method to program the VCR functions of the TV / VCR.

5. Programming Your VCR

To program (setup) the remote to operate your VCR...

1. Turn on your VCR.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [VCR]. The [VCR] button will illuminate.
4. a. Press and hold [CH ^] until your VCR turns off. As soon as your VCR turns off, release [CH ^].

OR
b. From the VCR Setup Code list below, locate and enter the 3-digit code for your brand. If multiple codes are listed, you may have to enter several 3-digit codes until your VCR turns off.
5. Press [MUTE]. If your VCR turns back on, press [VCR] to lock in the code. The [VCR] button will blink 2 times and go out.

If your VCR does not turn back on, repeat steps 4 and 5 above until you can turn your VCR off and on. 🗣️

Write your VCR brand & setup code _____

🗣️ **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your VCR off but not back on (step 5.), you may have gone past the correct matching code. Try pressing [CH v] one step at a time until you find a code that turns your VCR back on. Refer to Section 14 for Code Number Readback.

VCR Setup Codes

Admiral	114 156
Adventura	125
Aiwa	125
Akai	111 121 151
Audio Dynamics	107 144
Bell&Howell	105 124
Broksonic	109 148 153 164
Canon	108 134
Citizen	102 106 128 160
Colortyme	144
Craig	128 130
Curtis Mathes	108 113 134 144 160
Daewoo	106 110 112 157 158
Daytron	158 155
DBX	107 144
Dynatech	125
Emerson	102 103 106 108 109 122 133 140 149 151 164
Fisher	105 115 124 130 152
Funai	125

GE	108 127 128 134 141
Go Video	119 143 163
Goldstar (LG)	102 160
Harman Kardon	144
Hitachi	125 146 159
Instant Replay	108 117 134
JC Penney	105 108 117 128 134 144 146
JCL	108
JVC	104 105 107 126 138 160
Kenwood	105 107 160
Logik	142
LXI	102 125
Magnavox	108 125 134 136
Marantz	105 108 136 144 160
Marta	102
Memorex	102 105 125 130 134
MGA / Mitsubishi	123 129 131 147
MTC	125 128
Montgomery Ward	114 125 127 134 137 162
Multi Tech	125 128 142
NEC	105 107 144 170 171
Orion	122 149 165 166 167 168
Panasonic	108 113 134
Pentax	146
Philco	108 134 136
Philips	108 117 134 136
Pioneer	145 146
Portland	158
ProScan	127 141
Quasar	113 134
Quartz	101 108 116 117 127 128 137 141 146
Realistic	105 114 125 130 134
RCA	101 108 116 117 127 128 137 141 146
Samsung	121 128 139
Sansai	142
Sanyo	105 124 130
Scott	103 106 131 142
Sears	102 105 115 130 146
Sharp	114 156
Shintom	142
Signature 2000	114 125 127 137 162
Sony	132 135 150
Sylvania	108 116 117 125 134 136 165 172
Symphonic	125
Tandy	105 125
Tatung	107
Teac	107 125
Technics	108
Teknika	102 153
Toshiba	105 115 146 152
Totevision	102 128

Unitech	128
Vector Research	131 144
Video Concepts	144
Wards	102 114 125 128 160
XR-1000	142
Yamaha	105 107 144
Zenith	118 135 138 161

6. Programming Your Auxiliary Device

To program (setup) the remote to operate your **AUXILIARY** device (2nd CABLE, 2nd TV, 2nd VCR)...

1. Turn on your AUXILIARY device (2nd CABLE, 2nd TV, 2nd VCR).
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [AUX]. The [AUX] button will illuminate.
4. Press [TV] to program a 2nd TV as your AUXILIARY device. The [AUX] and [TV] buttons will blink together. Or press [CABLE] or [VCR] to program either of these as your AUXILIARY device.
5. a. Press and hold [CH ^] until your AUXILIARY device turns off. As soon as your AUXILIARY device turns off, release [CH ^].

OR
b. From the TV (Cable, VCR) Setup Code lists, locate and enter the 3-digit code for your brand. If multiple codes are listed, you may have to enter several 3-digit codes until your AUXILIARY device turns off.
6. Press [MUTE]. If your AUXILIARY device turns back on, press [AUX] to lock in the code. The two illuminated buttons will blink 2 times and go out. If your AUXILIARY device does not turn back on, repeat steps 4 and 5 above until you can turn your AUXILIARY device off and on. 🗣️

Write your AUX device brand & setup code _____

🗣️ **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your AUXILIARY device off but not back on (step 5.), you may have gone past the correct matching code. Try pressing [CH 0] one step at a time until you find a code that turns your AUXILIARY device back on. Refer to Section 14 for Code Number Readback.

7. Operating Your Converter

Your remote control is designed to operate **all** the features and functions of your advanced cable converter.

To select your remote's **CABLE mode**, press [DEVICE] then [CABLE]. The [CABLE] button will blink one time. Then press...

[DEVICE]	Illuminates [CABLE] mode.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.
[0] - [9]	Numeric entry buttons.
[LAST]	Displays last channel viewed.
[MUSIC / ENTER]	Selects Music Choice™ digital music through your converter.
[VOL ^] / [VOL v]	Increases / decreases CABLE volume.
[MUTE]	Mutes CABLE volume.
[EXIT]	Exits on-screen menus, view guide.
[CH ^] / [CH v]	Increases / decreases CABLE channel.
[A], [B], [C]	Functions set by cable operator.
[MENU]	Displays on-screen features, options
[GUIDE]	Displays on-screen listing of programs by date, time, channel.
[INFO]	Displays channel, time information.
[FAV]	Scroll through favorite channels.
[DAY ◀] / [DAY ▶]	Previous / next day in view guide.
[◀], [▶], [▲], [▼]	Navigate on-screen menus, program guide, PPV events and interactive services.
[SEL / OK]	Select menu option, program PPV events and function options.
[PG ^] / [PG v]	Page up / down through menus, view guide.
[BYPASS]	RF Bypass on converter.
[* HELP]	Displays on-screen help on

[PPV / LOCK]	converters so equipped. Displays pay-per-view events, enter parental control access code.
[SEL / OK] + [INFO]	Converter diagnostic functions (DCT / CFT2200 setup code 101).
[VCR / VOD]	Press to illuminate current operation of VCR buttons, either CABLE (video-on-demand) or VCR (play, stop, etc.). Press again to change operations from CABLE → VCR or VCR → CABLE. <u>VCR / VOD operates in CABLE mode only.</u>
[■]	Stop – CABLE or VCR.
[⏏]	Pause – CABLE or VCR.
[▶]	Play – CABLE or VCR.
[◀◀]	Rewind – CABLE or VCR.
[⏮]	Record – CABLE or VCR.
[▶▶]	Fast-forward – CABLE or VCR.

8. Operating Your TV

Your remote control is designed to operate many functions of your TV.

To select your remote's **TV mode**, press [DEVICE] then [TV]. The [TV] button will blink one time. Then press...

[DEVICE]	Illuminates [TV] mode.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.
[0] – [9]	Numeric channel entry buttons.
[MUSIC / ENTER]	Pressed after 0 - 9 to change channels on some TVs.
[VOL ^] / [VOL v]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[CH ^] / [CH v]	Increases / decreases TV channels.
[TV / VCR]	Change TV's video inputs. In your remote's TV mode, you can

[■]	also press... Stop - VCR.
[⏏]	Pause – VCR.
[▶]	Play - VCR.
[◀◀]	Rewind - VCR.
[⏮]	Record - VCR.
[▶▶]	Fast-forward - VCR.

9. Operating Your VCR

Your remote control is designed to operate many functions of your VCR.

To select your remote's **VCR mode**, press [DEVICE] then [VCR]. The [VCR] button will blink one time. Then press...

[DEVICE]	Illuminates [VCR] mode.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.
[0] – [9]	Numeric channel entry buttons.
[VOL ^] / [VOL v]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[CH ^] / [CH v]	Increases / decreases VCR channels.
[TV / VCR]	Change VCR's video inputs.
[■]	Stop - VCR.
[⏏]	Pause – VCR.
[▶]	Play - VCR.
[◀◀]	Rewind - VCR.
[⏮]	Record - VCR.
[▶▶]	Fast-forward - VCR.

10. Operating Your Auxiliary Device

Your remote control can also operate a 2nd CABLE converter, 2nd TV, or 2nd VCR.

To select your remote's **AUXILIARY mode**, press [DEVICE] then [AUX]. The [AUX] button will blink one time. Then press...

[DEVICE]	Illuminates [AUX] mode.
----------	-------------------------

[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.

Refer to section 7, 8, or 9 above for operating the AUXILIARY device you have programmed your remote control to operate.

11. Programming Volume Control

When you first program your remote, each device controls its own volume (except VCR volume, which defaults to your TV). Your volume control options in each mode are:

CABLE	CABLE (normal), TV or AUX (2nd TV).
TV	TV (normal), CABLE or AUX (2nd TV).
VCR	TV (normal), CABLE or AUX (2nd TV).
AUX	AUXILIARY device (normal), CABLE or TV.

To control volume / mute through your TV in the remote's **CABLE** mode...

1. Press [DEVICE], then [MUTE] together - hold both down until the lighted mode buttons start blinking in sequence.
2. Press [CABLE] to select the cable mode. The [CABLE] button will illuminate.
3. Press [VOL ^], then [TV] for TV volume. The [CABLE] button will blink 2 times and go out.

To return volume control back to your CABLE converter, repeat steps 1. and 2. above, then press [VOL π], then [CABLE] in step 3.

To control volume / mute through your CABLE converter in the remote's **VCR** mode...

1. Press [DEVICE], then [MUTE] together - hold both down until the lighted mode buttons start blinking in sequence.
2. Press [VCR] to select the VCR mode. The [VCR] button will illuminate.
3. Press [VOL ^], then [CABLE] for CABLE volume. The [VCR] button will blink 2 times and go out.

To return volume control back to your TV, repeat steps 1. and 2. above, then press [VOL ^], then [TV] in step 3.

12. Your Remote's SmartKeys™

Your remote is equipped with three (3) SmartKeys™ - [CABLE], [TV], and [BYPASS]. Each SmartKey™ can be programmed to transmit up to 12 functions (button presses), which can help simplify your remote's operation and reduce button presses.

Here are a few examples of how you can program and use each SmartKey™.

Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your CABLE converter. You can program the [CABLE] button to turn on (or off) your CABLE, TV, VCR, and AUXILIARY devices with one button press.

1. Press [DEVICE], then [CABLE] to select the CABLE mode of your remote.
2. Press [CABLE], then [SEL] together – hold both down together until the [CABLE] button illuminates.
3. In this order, press [CABLE], [TV], [VCR], [AUX]. The [CABLE] button will blink and remain illuminated.
4. Press [CH ^] to lock in this setting. The [CABLE] button will blink and go out.

To return the [CABLE] button to its normal function, repeat steps 1 and 2 above, then press [CH v].

Programming and using the [TV] SmartKey™

The [TV] button normally turns on / off your TV. You can program the [TV] button to turn on your TV, then tune your TV to channel 3 with one button press.

1. Press [DEVICE], then [CABLE] to select the CABLE mode of your remote.
2. Press [TV], then [SEL] together – hold both down together until the [TV] button illuminates.
3. In this order, press [TV], [DEVICE], [TV], [0], [3], [DEVICE], [CABLE]. The [TV] button will blink and remain illuminated.
4. Press [CH ^] to lock in this setting. The [TV] button will blink and go out.

To return the [TV] button to its normal function, repeat steps 1 and 2 above, then press [CH v].

Programming and using the [BYPASS] SmartKey™

The [BYPASS] button (CABLE mode) places your CABLE

converter in a BYPASS mode. While the CABLE converter is in its BYPASS mode, you can record one program on your VCR while watching a different program through your TV.

You can program the [BYPASS] button so that any time it is pressed, it will also tune your TV to a specific channel. This is important because when exiting the CABLE converter's BYPASS mode, your TV should be re-tuned to its default channel, typically 3, for proper cable reception.

1. Press [DEVICE], then [CABLE] to select the CABLE mode of your remote.
2. Press [BYPASS], then [SEL] together – hold both down together until the [CABLE] button illuminates.
3. In this order, press [BYPASS], [DEVICE], [TV], [0], [3], [DEVICE], [CABLE]. The [CABLE] button will blink and remain illuminated.
4. Press [CH ^] to store the setting. The [CABLE] button will blink and go out.

To return the [BYPASS] button to its normal function, repeat steps 1 and 2 above, then press [CH 0].

Remember: When using any SmartKey™ to transmit a series of functions, be sure to keep your remote aimed at the devices to ensure all functions are received in their entirety.

13. Code Number Readback

To identify the 3-digit setup code for your devices, follow these steps:

1. Press [DEVICE], then [MUTE] - hold both down until the illuminated mode buttons start blinking in sequence.
2. Press [CABLE] to identify your CABLE converter code. Or [TV], [VCR], [AUX] to identify these codes. The selected mode button will illuminate.
3. Press [INFO]. The illuminated button will "blink back" the code number, with a 1-second interval between each digit of the code.

Example: For code "105", the remote will blink 1 time, then 10 times, then 5 times.

14. Helpful Tips & Troubleshooting

1. Your remote has a Point and Press™ Programming label on the back of its case. This will help you quickly program the remote without using codes.
2. A mode button will illuminate while the remote is in a programming mode. In the absence of an entry, the

illuminated button will go out after 40 seconds.

3. When locking in your devices, the illuminated mode button will blink 2 times and go off.
4. When using the Point and Press™ Programming method, you may find a code that turns your device off but not back on (after pressing [MUTE]). If this happens...
 - a. the correct code has not been found. Continue pressing [CH π] until your devices turn on and off.

OR
 - b. you may have gone past the correct matching code. Try pressing [CH v] one step at a time until you find a code that turns your devices back on.
5. If you have a Scientific Atlanta 8500 series converter, press [CH ^] or [CH v] to turn on the converter. Press [CABLE] to turn these converters off.
6. Your remote control will automatically shut itself off if the same key is pressed and held for 45 seconds. This extends battery life in the event the remote becomes lodged under or between large, heavy objects.
7. To reset your remote to its original settings...
 - a. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
 - b. Press [CABLE]. The [CABLE] button illuminates.
 - c. Press [*Help], then [*HELP]. The [CABLE] button will blink 3 times and go out.
8. When programming your TV, VCR, or AUXILIARY devices, you may find several setup codes that can turn on / off a specific device. However, not all of these codes may operate all the functions on the device bring programmed. Be sure to use the setup code that operates all the functions on the device you are programming.
9. If you have any questions concerning the operation of your CABLE converter, contact your cable operator.